

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING

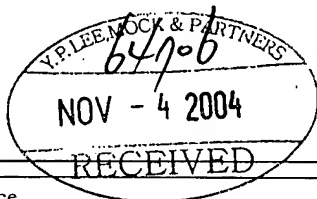
## PCT

### NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

( PCT Rule 71.1 )

To:  
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Date of mailing  
(day/month/year) 30 OCTOBER 2004 (30.10.2004)

Applicant's or agent's file reference  
SI-20000-**PCT**

#### IMPORTANT NOTIFICATION

International application No.

**PCT/KR2003/001305**

International filing date (day/month/year)

**03 JULY 2003 (03.07.2003)**

Priority date (day/months/year)

**04 JULY 2002 (04.07.2002)**

Applicant

**SAMSUNG ELECTRONICS CO. LTD. et al**

1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**  
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR

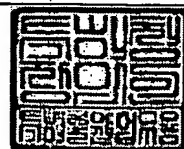
Korean Intellectual Property Office  
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Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5207



Form PCT/IPEA/416 (July 1992)

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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT



(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SI-20000-US	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR2003/001305</b>	International filing date (day/month/year) <b>03 JULY 2003 (03.07.2003)</b>	Priority date (day/month/year) 04 JULY 2002 (04.07.2002)
International Patent Classification (IPC) or national classification and IPC  <b>IPC7 H04N 9/73</b>		
Applicant  <b>SAMSUNG ELECTRONICS CO. LTD. et al</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:
- I ☒ Basis of the report
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☒ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>03 FEBRUARY 2004 (03.02.2004)</b>	Date of completion of this report  26 OCTOBER 2004 (26.10.2004)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  KWON, KI WON Telephone No. 82-42-481-8123 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/001305

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheet \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed," and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/001305

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims 1-21	YES
	Claims none	NO
Inventive step (IS)	Claims 1-21	YES
	Claims none	NO
Industrial applicability (IA)	Claims 1-21	YES
	Claims none	NO

### 2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purpose of this report:

D1 : "One dimensional conversion of color temperature in perceived illumination" Consumer Electronics, 2001. ICCE. International Conference on, 19-21 June 2001, Page(s): 46-47

D2 : JP 62239029 A2

D3 : JP 2002281519 A2

D4 : JP 4313990 A2

#### NOVELTY(N)

Claims 1-21 of the present invention relate to a method and system for changing the color temperature of a display device, and more exactly, to a method and system for estimating the color temperature of a compressed video image and changing the color temperature of that image in accordance with a user's preference. The technical characteristic of the present invention is as follows.

1) A color temperature estimation unit, which receives a compressed video image using block-based DCT, generates a DC video image corresponding to the compressed video image, and estimates a color temperature of the compressed video image using the DC video image.

2) A decoder, which decodes the compressed video image to generate an original video image.

3) A color temperature change unit, which determines the estimated color temperature of the compressed video image or the color temperature of the decoded original video image as an application color temperature depending on whether or not the compressed video image is a moving video image. The unit changes the color temperature of the decoded original video image in accordance with the application color temperature and the color temperature preferred by the user.

None of the documents D1-D4 teach nor fairly suggest the method and system for changing the color temperature of the display device of the present invention.

Therefore, Claims 1-17 of the present invention are considered to be novel.

#### INVENTIVE STEP(IS)

None of the documents D1-D5 reveal the above technical features of the invention. Furthermore, there are no suggestions leading a person skilled in the art to the invention in the above documents.

Therefore, Claims 1-17 of the present are considered to involve an inventive step.

#### INDUSTRIAL APPLICABILITY(IA)

The invention claimed in Claims 1-17 is considered to be industrially applicable.

# INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/001305

## VI. Certain documents cited

### 1. Certain published documents (Rule 70.10)

<u>Application No. Patent No.</u>	<u>Publication date (day/month/year)</u>	<u>Filing date (day/month/year)</u>	<u>Priority date (valid claim) (day/month/year)</u>
US 4562460 A	31/12/1985	21/04/1983	
US 4633299 A	30/12/1986	17/10/1984	
US 4788586 A	29/11/1988	24/09/1987	
US 6172719 B1	09/01/2001	24/12/1997	24/12/1996
US 4685071 A	04/08/1987	18/04/1985	
US 5495428 A	27/02/1996	31/08/1993	
KR 10-1999-0050596	15/06/2001	15/11/1999	

### 2. Non-written disclosures (Rule 70.9)

<u>Kind of non-written disclosure</u>	<u>Date of non-written disclosure (day/month/year)</u>	<u>Date of written disclosure referring to non-written disclosure (day/month/year)</u>